

QPL 1863

FEB 17 1982

1. PRODUCT NAME, NUMBER, SYNONYM: DOUGLAS ETCHANT 4L, CEE-BEE A-68
2. MANUFACTURER'S NAME: Chemetron Corp., Inorganic Chemicals Div., CEE-BEE CHEMICAL
3. MANUFACTURER'S ADDRESS: 9520 E. CeeBee Drive, Downey, CA 90241
4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Flush with water
5. TRANSPORTATION AND STORAGE REQUIREMENTS: Avoid prolonged storage at temperatures below 32°F to prevent crystallization of product
6. FIRST AID TREATMENT:
- A. SKIN CONTACT: Flush with water
- B. EYE CONTACT: Flood with water. Seek medical attention immediately.
- C. INHALATION: Remove to fresh air.
- D. ANTIDOTE IN CASE OF SWALLOWING: Administer vinegar or citrus juice. Seek medical attention immediately.
7. PHYSIOLOGICAL PROPERTIES:
- A. ACUTE ORAL TOXICITY: corrosive to mucous linings
- B. LOCAL EFFECTS UPON EYES: corrosive to eyes
- C. LOCAL EFFECTS UPON SKIN: corrosive to skin
- D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Slight; active ingredients non-volatile
- E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Characteristic odor of sulfides
- F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): ---
8. CHEMICAL AND PHYSICAL PROPERTIES:
- A. SPECIFIC GRAVITY (WATER = 1): 1.38
- B. VAPOR DENSITY (AIR = 1): same as water
- C. VAPOR PRESSURE mm Hg AT 25°C: 23
- D. pH: above 13
- E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: attacks aluminum, many lacquers and enamels, rubber and some fabrics

F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS? NO

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT
<u>caustic soda</u>	<u>20-30</u>
<u>sulfur</u>	<u>10-20</u>
<u>water</u>	<u>-balance-</u>

NOTE: GENERALIZATIONS SUCH AS PETROLEUM HYDROCARBONS, ALCOHOL, KETONES, CHLORINATED HYDROCARBONS, ETC., ARE NOT ADEQUATE FOR TOXICOLOGICAL EVALUATION. PROPER CHEMICAL NAMES MUST BE KNOWN.

H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? no

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: Avoid contact with skin and eyes

10. RECOMMENDED PROTECTIVE EQUIPMENT: waterproof gloves and boots, eye protection

11. A. FLASHPOINT °F: CLOSED CUP -does not flash-; OPEN CUP -does not flash-; IF F.P. CHANGES DURING EVAPORATION GIVE DATA: -does not flash-

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER -non-explosive; UPPER -non-explosive

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES -non-explosive; NO X

D. FIRE POINT °F non-flammable; AUTO IGNITION TEMPERATURE °F non-flammable

E. VAPOR DENSITY same as water

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? --

G. SUITABLE EXTINGUISHING AGENTS: non-flammable

12. INFORMATION FURNISHED BY: Richard C. Condra

TITLE: Chief Chemist

COMPANY: Chemetron Corp., Inorganic Chemicals Div., CEE-BEE CHEMICAL

ADDRESS: 9520 E. CeeBee Drive, Downey, CA 90241

DATE: December 13, 1971

NOTE: INFORMATION IN REGARD TO A MATERIAL'S COMPOSITION WILL BE USED FOR THE PURPOSE OF COMPLYING WITH LOCAL, STATE AND FEDERAL ORDINANCES, LAWS AND CODES, AND REQUIREMENTS OF GOVERNMENTAL AGENCIES.

THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

F. DOES THE MATERIAL DECOMPOSE WHEN EXPOSED TO AIR? WATER? HEAT? STRONG OXIDIZERS? Avoid strong oxidizers and acids

G. FOR MIXTURES GIVE THE PERCENTAGE COMPOSITION OF INGREDIENTS:

COMPOUND	PERCENT
<u>Sodium hydroxide</u>	<u>30-35</u>
<u>Sulfur</u>	<u>10-15</u>
<u>Water</u>	<u>Balance</u>

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H. DOES THE MATERIAL GENERATE HEAT THROUGH POLYMERIZATION OR CONDENSATION? No

9. PRECAUTIONS FOR NORMAL CONDITIONS OF USE: Avoid contact with skin and clothing.

10. RECOMMENDED PROTECTIVE EQUIPMENT: Face shield, rubber gloves and aprons.

11. A. FLASHPOINT °F: CLOSED CUP None; OPEN CUP _____; IF F.P. CHANGES DURING EVAPORATION GIVE DATA:

B. EXPLOSIVE LIMITS (% VOL. AIR): LOWER Unknown; UPPER Unknown

C. SUSCEPTIBILITY TO SPONTANEOUS HEATINGS: YES _____; NO X

D. FIRE POINT °F Unknown; AUTO IGNITION TEMPERATURE °F Unknown

E. VAPOR DENSITY Greater than air

F. WHAT PRODUCTS MIGHT BE FORMED IN THE EVENT OF FIRE OR ABNORMAL TEMPERATURES? Oxides of sulfur

G. SUITABLE EXTINGUISHING AGENTS: Carbon dioxide

12. INFORMATION FURNISHED BY: A. E. Zaelke
TITLE: Chief Technical Service Engineer
COMPANY: Turco Products, Inc.
ADDRESS: 24600 So. Main St., Wilmington, Calif. 90745
DATE: 12/16/71

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THE COMPLETED FORM SHOULD BE RETURNED TO PURCHASING, DOUGLAS AIRCRAFT DIVISION, LONG BEACH, CALIF. 90801.

HAZARDOUS MATERIALS DATA SHEET
(PLEASE COMPLETE APPLICABLE SECTIONS)

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1. PRODUCT NAME, NUMBER, SYNONYM: Turcoform DACO 4L Etchant
2. MANUFACTURER'S NAME: Turco Products, Inc.
3. MANUFACTURER'S ADDRESS: 24600 So. Main St., Wilmington, Calif. 90745
4. PROCEDURE IN CASE OF BREAKAGE OR LEAKAGE: Flush to sewer with water.
5. TRANSPORTATION AND STORAGE REQUIREMENTS: Transport and store in closed container at temperatures between 40°F and 120°F.
6. FIRST AID TREATMENT:
- A. SKIN CONTACT: Wash with soap and water.
- B. EYE CONTACT: Flush with copious amounts of water. Obtain medical attention.
- C. INHALATION: Remove to fresh air
- D. ANTIDOTE IN CASE OF SWALLOWING: Do not induce vomiting. Give water, egg whites or 2 oz. olive oil.
7. PHYSIOLOGICAL PROPERTIES:
- A. ACUTE ORAL TOXICITY: Severe
- B. LOCAL EFFECTS UPON EYES: Severe caustic burns
- C. LOCAL EFFECTS UPON SKIN: Severe caustic burns
- D. ESTIMATE OF ACUTE HAZARD BY INHALATION (VOLATILE MATERIALS): Moderate
- E. WARNING PROPERTIES (ODOR, IRRITATION TO EYES, NOSE OR THROAT): Irritation of nose
- F. ESTIMATED THRESHOLD LIMIT VALUE (IF NOT ON CURRENT LIST BY AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS): Unknown
8. CHEMICAL AND PHYSICAL PROPERTIES:
- A. SPECIFIC GRAVITY (WATER = 1) 1.41
- B. VAPOR DENSITY (AIR = 1) more than 1
- C. VAPOR PRESSURE mm Hg AT 25°C. Less than 25 mm
- D. pH 13+
- E. CORROSIVE ACTION ON COMMON MATERIALS SUCH AS: ALUMINUM, MAGNESIUM, PLEXIGLAS, RUBBER, LACQUERS, ENAMELS, FABRICS: Corrosive to aluminum and paint